

**CRF Errors Edited by the STIC Systems  
Branch**

11  
H  
5

Serial Number: 101031,474

CRF Edit Date: 9-17-03  
Edited by: RG

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

**ENTERED**

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

X Deleted: X invalid beginning/end-of-file text ; 1 page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_ Other:

# ENTERED



PCT10

## RAW SEQUENCE LISTING

DATE: 09/17/2003

PATENT APPLICATION: US/10/031,474

TIME: 13:45:40

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09172003\J031474.raw

```

3 <110> APPLICANT: Donna T. Ward
4     Lex M. Cowsert
6 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF JUN N-TERMINAL KINASE KINASE-1
EXPRESSION
8 <130> FILE REFERENCE: RTSP-0249
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/031,474
C--> 10 <141> CURRENT FILING DATE: 2002-01-17
10 <150> PRIOR APPLICATION NUMBER: US 09/358,382
11 <151> PRIOR FILING DATE: 1999-07-21
13 <160> NUMBER OF SEQ ID NOS: 47
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 3576
17 <212> TYPE: DNA
18 <213> ORGANISM: Homo sapiens
20 <220> FEATURE:
21 <221> NAME/KEY: CDS
22 <222> LOCATION: (10)..(1209)
24 <400> SEQUENCE: 1
25 ctcccaaca atg gcg gct ccg agc ccg agc ggc ggc ggc ggc tcc ggg           48
26     Met Ala Ala Pro Ser Pro Ser Gly Gly Gly Gly Ser Gly
27         1             5             10
29 ggc ggc agc ggc agc ggc acc ccc ggc ccc gta ggg tcc ccg gcg cca           96
30 Gly Gly Ser Gly Ser Gly Thr Pro Gly Pro Val Gly Ser Pro Ala Pro
31     15             20             25
33 ggc cac ccg gcc gtc agc agc atg cag ggt aaa cgc aaa gca ctg aag           144
34 Gly His Pro Ala Val Ser Ser Met Gln Gly Lys Arg Lys Ala Leu Lys
35     30             35             40             45
37 ttg aat ttt gca aat cca cct ttc aaa tct aca gca agg ttt act ctg           192
38 Leu Asn Phe Ala Asn Pro Pro Phe Lys Ser Thr Ala Arg Phe Thr Leu
39         50             55             60
41 aat ccc aat cct aca gga gtt caa aac cca cac ata gag aga ctg aga           240
42 Asn Pro Asn Pro Thr Gly Val Gln Asn Pro His Ile Glu Arg Leu Arg
43         65             70             75
45 aca cac agc att gag tca tca gga aaa ctg aag atc tcc cct gaa caa           288
46 Thr His Ser Ile Glu Ser Ser Gly Lys Leu Lys Ile Ser Pro Glu Gln
47         80             85             90
49 cac tgg gat ttc act gca gag gac ttg aaa gac ctt gga gaa att gga           336
50 His Trp Asp Phe Thr Ala Glu Asp Leu Lys Asp Leu Gly Glu Ile Gly
51         95             100            105
53 cga gga gct tat ggt tct gtc aac aaa atg gtc cac aaa cca agt ggg           384
54 Arg Gly Ala Tyr Gly Ser Val Asn Lys Met Val His Lys Pro Ser Gly
55     110            115            120            125
57 caa ata atg gca gtt aaa aga att cgg tca aca gtg gat gaa aaa gaa           432
58 Gln Ile Met Ala Val Lys Arg Ile Arg Ser Thr Val Asp Glu Lys Glu

```

## RAW SEQUENCE LISTING

DATE: 09/17/2003

PATENT APPLICATION: US/10/031,474

TIME: 13:45:40

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09172003\J031474.raw

59		130		135		140		
61	caa	aaa	caa	ctt	ctt	atg	gat	ttg
62	Gln	Lys	Gln	Leu	Leu	Met	Asp	Leu
63			145			150		155
65	tgc	cca	tac	att	gtt	cag	ttt	tat
66	Cys	Pro	Tyr	Ile	Val	Gln	Phe	Tyr
67		160				165		170
69	tgt	tgg	atc	tgt	atg	gaa	ctc	atg
70	Cys	Trp	Ile	Cys	Met	Glu	Leu	Met
71		175			180			185
73	aaa	tat	gta	tat	agt	gta	tta	gat
74	Lys	Tyr	Val	Tyr	Ser	Val	Leu	Asp
75	190				195			200
77	ggc	aaa	atc	act	tta	gca	act	gtg
78	Gly	Lys	Ile	Thr	Leu	Ala	Thr	Val
79			210			215		220
81	aac	ttg	aaa	att	att	cac	aga	gat
82	Asn	Leu	Lys	Ile	Ile	His	Arg	Asp
83			225			230		235
85	gac	aga	agt	gga	aat	att	aag	ctc
86	Asp	Arg	Ser	Gly	Asn	Ile	Lys	Leu
87		240				245		250
89	ctt	gtg	gac	tct	att	gcc	aag	aca
90	Leu	Val	Asp	Ser	Ile	Ala	Lys	Thr
91		255			260			265
93	atg	gca	cct	gaa	aga	ata	gac	cca
94	Met	Ala	Pro	Glu	Arg	Ile	Asp	Pro
95	270				275			280
97	gtc	cgc	tct	gat	gtc	tgg	agt	ttg
98	Val	Arg	Ser	Asp	Val	Trp	Ser	Leu
99			290			295		300
101	aca	ggc	cga	ttt	cct	tat	cca	aag
102	Thr	Gly	Arg	Phe	Pro	Tyr	Pro	Lys
103			305			310		315
105	aca	caa	gtc	gtg	aaa	gga	gat	cct
106	Thr	Gln	Val	Val	Lys	Gly	Asp	Pro
107		320				325		330
109	agg	gaa	ttc	tcc	ccg	agt	ttc	atc
110	Arg	Glu	Phe	Ser	Pro	Ser	Phe	Ile
111		335			340			345
113	aag	gat	gaa	tcc	aaa	agg	cca	aag
114	Lys	Asp	Glu	Ser	Lys	Arg	Pro	Lys
115	350				355			360
117	ttt	att	ttg	atg	tat	gaa	gaa	cgt
118	Phe	Ile	Leu	Met	Tyr	Glu	Glu	Arg
119			370			375		380
121	tgt	aaa	atc	ctg	gat	caa	atg	cca
122	Cys	Lys	Ile	Leu	Asp	Gln	Met	Pro
123			385			390		395

## RAW SEQUENCE LISTING

DATE: 09/17/2003

PATENT APPLICATION: US/10/031,474

TIME: 13:45:40

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09172003\J031474.raw

```

125 gtc gat tga tatcgctgct acatcagact ctagaaaaaa gggctgagag gaagcaagac 1259
126 Val Asp
128 gtaaagaatt ttcattccgt atcacagtgt ttttattgct cgcccagaca ccatgtgcaa 1319
130 taagattggg gttcgtttcc atcatgtctg tatactcctg tcacctagaa cgtgcatcct 1379
132 tgtaatacct gattgatcac acagtgttag tgctggtcag agagacctca tcctgctctt 1439
134 ttgtgatgaa catattcatg aaatgtggaa gtcagtacga tcaagttggt gactgtgatt 1499
136 agatcacatc ttaaatccat ttctagactc aaaacctgga gatgcagcta ctggaatggg 1559
138 gttttgtcag acttccaaat cctggaagga cacagtgatg aatgtactat atctgaacat 1619
140 agaaactcgg gcttgagtga gaagagcttg cacagccaac gagacacatt gccttctgga 1679
142 gctgggagac aaaggaggaa tttactttct tcaccaagtg caatagatta ctgatgtgat 1739
144 attctgttgc tttacagtta cagttgatgt ttggggatcg atgtgctcag ccaaatttcc 1799
146 tgtttgaaat atcatgttaa attagaatga atttatcttt accaaaaacc atgttgcggt 1859
148 caaagagggtg aacattaaaa tatagagaca ggacagaatg tgttcttttc tcctctacca 1919
150 gtcctatttt tcaatgggaa gactcaggag tctgccactt gtcaaagaag gtgctgatcc 1979
152 taagaatttt tcattctcag aattcgggtg gctgccaact tgatgttcca cctgccacaa 2039
154 accaccagga ctgaaagaag aaaacagtac agaaggcaaa gtttacagat gtttttaatt 2099
156 ctagtatttt atctggaaca acttgtagca gctatatatt tccccttggt cccaagcctg 2159
158 atacttttagc catcataact cactaacagg gagaagtagc tagtagcaat gtgccttgat 2219
160 tgattagata aagattttcta gtaggcagca aaagaccaa tctcagttgt ttgcttcttg 2279
162 ccatcactgg tccaggctct cagtttccga atctctttcc cttcccctgt ggtctattgt 2339
164 cgctatgtga cttgocgtta atccaatatt ttgccttttt tctatatcaa aaaaccttta 2399
166 cagtttagcag ggtgttctct taccgaggat ttttaacccc caatctctca taatcgctag 2459
168 tgtttaaaag gctaagaata gtggggccca accgatgtgg taggtgataa agaggcatct 2519
170 tttctagaga cacattggac cagatgagga tccgaaacgg cagcctttac gttcatcacc 2579
172 tgctagaacc tctcgtagtc catcaccatt tcttggcatt ggaattctac tggaaaaaaa 2639
174 taaaaaaagc aaaacaaaac cctcagcact gttacaagag gccatttaag tatcttgtgc 2699
176 ttcttcactt acccattagc caggttctca ttaggttttg cttgggcctc cctggcactg 2759
178 aaccttaggc tttgtatgac agtgaagcag cactgtgagt ggttcaagca cactggaata 2819
180 taaaacagtc atggcctgag atgcagggtg tgccattaca gaaccaaatac gtggcacgta 2879
182 ttgctgtgtc tctctcaga gtgacagtca taaatactgt caaacaataa agggagaatg 2939
184 gtgctgttta aagtcacatc cctgtaaatt gcagaattca aaagtgatta tctctttgat 2999
186 ctacttgcct catttcccta tcttctcccc cacggtatcc taaactttag acttcccact 3059
188 gttctgaaag gagacattgc tctatgtctg ccttcgacca cagcaagcca tcatcctcca 3119
190 ttgctcccgg ggactcaaga ggaatctgtt tctctgctgt caacttccca tctggctcag 3179
192 cataggggtca ctttgccatt atgcaaatgg agataaaagc aattctggct gtccaggagc 3239
194 taatctgacc gttctattgt gtggatgacc acataagaag gcaattttag tgtattaatc 3299
196 atagattatt ataaactata aacttaaggc caaggagttt attacaatgt atctttatta 3359
198 aaacaaaagg gtgtatagtg ttcacaaact gtgaaaatag tgtaagaact gtacattgtg 3419
200 agctctgggt atttttctct tgtaccatag aaaaatgtat aaaaattatc aaaaagctaa 3479
202 tgtgcaggga tattgcctta tttgtctgta aaaaatggag ctcagtaaca taactgcttc 3539
204 ttggagcttt ggaatatttt atcctgtatt cttgtttt 3576
207 <210> SEQ ID NO: 2
208 <211> LENGTH: 26
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: PCR Primer
215 <400> SEQUENCE: 2
216 ccacacatag agagactgag aacaca

```

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## RAW SEQUENCE LISTING

DATE: 09/17/2003

PATENT APPLICATION: US/10/031,474

TIME: 13:45:40

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09172003\J031474.raw

```

219 <210> SEQ ID NO: 3
220 <211> LENGTH: 21
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: PCR Primer
227 <400> SEQUENCE: 3
228 tgcagtga aa tccagtggt g                21
231 <210> SEQ ID NO: 4
232 <211> LENGTH: 32
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: PCR Probe
239 <400> SEQUENCE: 4
240 cattgagtca tcaggaaaac tgaagatctc cc      32
243 <210> SEQ ID NO: 5
244 <211> LENGTH: 19
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: PCR Primer
251 <400> SEQUENCE: 5
252 gaaggtgaag gtcggagtc                19
255 <210> SEQ ID NO: 6
256 <211> LENGTH: 20
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: PCR Primer
263 <400> SEQUENCE: 6
264 gaagatggtg atgggatttc                20
267 <210> SEQ ID NO: 7
268 <211> LENGTH: 20
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: PCR Probe
275 <400> SEQUENCE: 7
276 caagcttccc gttctcagcc                20
279 <210> SEQ ID NO: 8
280 <211> LENGTH: 20
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Antisense Oligonucleotide
287 <400> SEQUENCE: 8
288 ggagccgccca ttgttgggag                20
291 <210> SEQ ID NO: 9

```

## RAW SEQUENCE LISTING

DATE: 09/17/2003

PATENT APPLICATION: US/10/031,474

TIME: 13:45:40

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09172003\J031474.raw

```

292 <211> LENGTH: 20
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Antisense Oligonucleotide
299 <400> SEQUENCE: 9
300 ggctcggagc cgccattggt 20
303 <210> SEQ ID NO: 10
304 <211> LENGTH: 20
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Antisense Oligonucleotide
311 <400> SEQUENCE: 10
312 gctcgggctc ggagccgcca 20
315 <210> SEQ ID NO: 11
316 <211> LENGTH: 20
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Antisense Oligonucleotide
323 <400> SEQUENCE: 11
324 gagccgcccgc cgccgctcgg 20
327 <210> SEQ ID NO: 12
328 <211> LENGTH: 20
329 <212> TYPE: DNA
330 <213> ORGANISM: Artificial Sequence
332 <220> FEATURE:
333 <223> OTHER INFORMATION: Antisense Oligonucleotide
335 <400> SEQUENCE: 12
336 atgctgctga cggccgggtg 20
339 <210> SEQ ID NO: 13
340 <211> LENGTH: 20
341 <212> TYPE: DNA
342 <213> ORGANISM: Artificial Sequence
344 <220> FEATURE:
345 <223> OTHER INFORMATION: Antisense Oligonucleotide
347 <400> SEQUENCE: 13
348 caacttcagt gctttgcgtt 20
351 <210> SEQ ID NO: 14
352 <211> LENGTH: 20
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial Sequence
356 <220> FEATURE:
357 <223> OTHER INFORMATION: Antisense Oligonucleotide
359 <400> SEQUENCE: 14
360 gagtaaacct tgctgtagat 20
363 <210> SEQ ID NO: 15
364 <211> LENGTH: 20

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/031,474

DATE: 09/17/2003

TIME: 13:45:41

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09172003\J031474.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date



PCT10

## RAW SEQUENCE LISTING

DATE: 09/17/2003

PATENT APPLICATION: US/10/031,474

TIME: 13:44:55

Input Set : A:\Sequence

Output Set: N:\CRF4\09172003\J031474.raw

3 <110> APPLICANT: Donna T. Ward  
 4 Lex M. Cowsert  
 6 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF JUN N-TERMINAL KINASE KINASE-1  
 EXPRESSION  
 8 <130> FILE REFERENCE: RTSP-0249  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/031,474  
 C--> 10 <141> CURRENT FILING DATE: 2002-01-17  
 10 <150> PRIOR APPLICATION NUMBER: US 09/358,382  
 11 <151> PRIOR FILING DATE: 1999-07-21  
 13 <160> NUMBER OF SEQ ID NOS: 47

**Does Not Comply**  
**Corrected Diskette Needed**

## ERRORED SEQUENCES

747 <210> SEQ ID NO: 47  
 748 <211> LENGTH: 20  
 749 <212> TYPE: DNA  
 750 <213> ORGANISM: Artificial Sequence  
 752 <220> FEATURE:  
 753 <223> OTHER INFORMATION: Antisense Oligonucleotide  
 755 <400> SEQUENCE: 47  
 756 ttgtgttttaa taaagataca  
 E--> 761 13

20

13 delete



## VERIFICATION SUMMARY

DATE: 09/17/2003

PATENT APPLICATION: US/10/031,474

TIME: 13:44:56

Input Set : A:\Sequence

Output Set: N:\CRF4\09172003\J031474.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:761 M:254 E: No. of Bases conflict, this line has no nucleotides.